

# DIAPHRAGM AND VOICE COIL ATTACHING STRUCTURE FOR ELECTROMAGNETIC INDUCTION ACTUATOR

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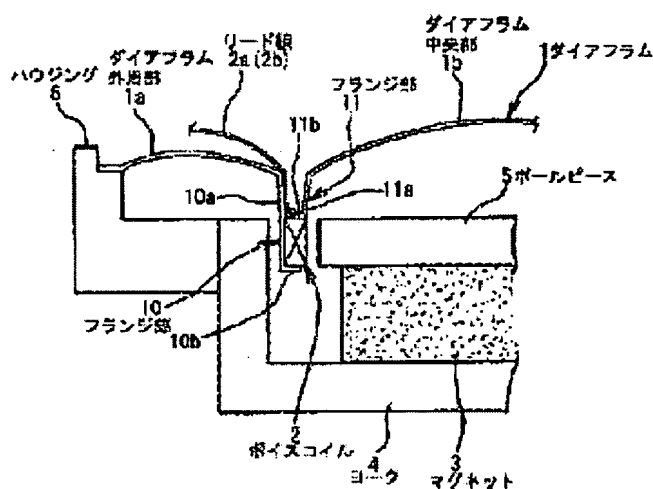
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## Abstract of JP2001359193

**PROBLEM TO BE SOLVED:** To form a diaphragm so as to uniformly vibrate the diaphragm as a whole by preventing the divided vibrations on the outer peripheral part and central part of the diaphragm even at a low resonance frequency, and to prevent the lead wire of a voice coil from being disconnected by preventing the lead wire of the voice coil from coming in contact with a magnetic circuit assembled inside a housing.

**SOLUTION:** An outer peripheral part 1a to be fixed to the housing 6 of the diaphragm and a central part 1b to become a main part are formed as separate bodies while imparting them different frequency characteristics and further formed as a diaphragm 1 to uniformly vibrate as a whole even by the application of a lower resonance frequency signal by combining the both, a lead wire 2a (2b) of the voice coil 2 is led out of confronted flange parts 10 and 11 of the respective outer peripheral part 1a and the central part 1b of the diaphragm 1, the outer peripheral part 1a and the central part 1b of the diaphragm 1 are integrally bonded at the confronted flange parts 10 and 11, and the voice coil 2 is assembled and mounted on the diaphragm 1.



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